

**Department of Public Works and Transportation
Montgomery County, Maryland**

DIVISION OF SOLID WASTE SERVICES



Earth Day Celebration
April 20, 2002

***MONTHLY REPORT
APRIL 2002***



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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, fiscal year to date (FY Total), and current calendar month in the two prior fiscal years. (County fiscal year 2002 began July 1, 2001.)

FACILITY	Apr FY 02	FY 02 Total	Apr FY 01	Apr FY 00
Materials Recovery Facility ⁽¹⁾	6,905 tons	66,508 tons	6,304 tons	5,234 tons
Brunswick Landfill Facility ⁽⁴⁾	20,964 tons	191,384 tons	14,646 tons	11,643 tons
American Ash Recycling ⁽²⁾	N/A	N/A	1,775 tons	3,113 tons
Resource Recovery Facility ⁽³⁾	48,996 tons	474,902 tons	39,520 tons	40,878 tons
Yard Trim Compost Facility	5,679 tons	51,673 tons	6,6488 tons	4,291 tons

⁽¹⁾MRF tons reported are outgoing.

⁽²⁾Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

⁽³⁾RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here.

⁽⁴⁾This category only addresses waste sent to the landfill for disposal. It does not include rubble that is recycled at Clean Rock or other locations.

Revenue Analysis and Systems Evaluation – During April, program staff:

- Assisted with budget management as necessary due to vacancy of Budget Manager Position;
- Prepared and issued web-based invoices and mailed hard copies to all refuse collector credit accounts for month number 5 of the new Hauler Billing System;
- Maintained contact with account holders as needed to assure payment compliance;
- Updated Tipping Fee Survey for both MSW and C&D;
- Mapped out FY01 MSW export to final destinations;
- Analyzed export versus Transfer Station deliveries for the largest haulers;
- Compiled and analyzed patterns of C&D export;
- Continued training Joan to become Hauler Billing Manager;

- Joan, due to vacancy created by Karen Stevenson's leaving to accept a permanent position, continues to manage property billing quality assurance functions;
- Assisted with advertising Program Specialist I vacancy (property billing quality assurance position);
- Obtained and began training temporary transfer employee (Sattar Namjou borrowed from Highway Services) in this position;
- Performed quarterly property update (determined and entered correct billing codes for 581 new properties into the Department of Finance TXA170 database and updated DSWS databases accordingly);
- Identified and processed billing corrections for 18 additional properties;
- Prepared monthly service unit counts for County collection contractors;
- Advised SDAT of changes needed in its database system on 20 properties;
- Received confirmation from SDAT of 34 previously requested changes;
- Entered final 13 FY02 nonresidential appeal results;
- Revised to original generator category billing codes for 51 FY00 appeals which expire in July;
- Processed 13 FY02 vacancy refunds;
- Updated new street maps and premise address books as needed;
- Answered Council Staff questions and met with T&E committee regarding FY03 budget;
- Advertised rate setting regulation in the Montgomery Journal;
- Prepared 3rd Quarter Review of Revenue and Expenditures;
- Responded to various ad-hoc requests regarding waste flows;
- Completed compiling field-audited 6-month Hauler Report data;
- Completed entering Recycling Processor Report data and began filtering-out dual reported data, and preparation of the CY01 Recycling Rate Calculation.
- Continued statistical research on field data to enhance future nonresidential rate structure.
- Work on variable rate feasibility study continued to be sacrificed in order to assist with critical work loads and vacated positions.

CITIZEN COMMITTEES

Facilities Implementation Group – The next scheduled FIG meeting is May 14, 2002, at the Gothic Barn in Dickerson. Among the topics on the agenda are RRF

Epidemiological Study, Fire Hydrant at the Compost Facility, Master Plan Update and Gap Analysis of the RRF.

Solid Waste Advisory Committee – SWAC met Tuesday, April 9th, at the EOB, 6th Floor Conference Room. Nine SWAC members, five County staff and three guests were in attendance. DSWS staff gave presentations on Recycling Outreach & Education and Recycling Volunteers.

COLLECTIONS

Refuse – Refuse collections went as scheduled for the month of April. Collections were made without incident.

Recycling – Mixed paper tonnages for the residential program during the last 36 weeks are as follows:

8/6/01 through 8/31/01	9.10 lbs. per household
9/3/01 through 9/28/01	10.08 lbs. per household
10/1/01 through 10/26/01	11.10 lbs. per household
10/29/01 through 11/23/01	10.83 lbs. per household
11/26/01 through 12/21/01	11.52 lbs. per household
12/24/01 through 1/18/02	9.58 lbs. per household
1/21/02 through 2/15/02	9.01 lbs. per household
2/18/02 through 3/15/02	9.02 lbs. per household
3/18/02 through 4/12/02	9.73 lbs. per household

Contractor Performance – During the month of April, DSWS received 702 complaints.

Enforcement Actions – Nine citations were issued for violations of the County's Solid Waste Laws:

Six citations	Not having a valid collectors tag attached	\$3,750
Two citations	Early morning collections	\$1,250
One citation	Not having a current collectors license	\$500

Five NOV's were issued for violations of the County's Solid Waste Laws:

Four NOV's	Accumulation of Solid Wastes
One NOV	Not having a valid collector's tag attached

Customer Service – DSWS received 10,882 incoming calls and 375 follow-up calls were made for quality check. There were 1,252 blue bins delivered and 398 e-mail requests handled by the Customer Service Staff.

WASTE MINIMIZATION

Latex Paint Management – DSWS continues to promote home management of latex paint, and in particular, Waste Paint Hardener. The campaign has substantially reduced the amount of latex paint coming into the HHW program. Compared to April 2001, the HHW program saw more than 570 more patrons and received an estimated 3.5 FEWER gallons of all paints per patron.

Bicycle Recycling – In April, 37 bikes (0.67 tons) were picked up by Pedals for Progress.

Computer Recycling – Approximately 36 tons of computers were recycled in April under the computer recycling program.

Department of Environmental Protection's Home Composting and Source Reduction Activities – Green Man column continues in the Gazette Newspapers.

Continued work planning for implementation of the in-vessel composting system for the Department of Corrections in Clarksburg; operational outline completed, funding options and comparative costs are being explored.

Workshops on composting, environmental lawn care, rain gardens and rainscaping in Poolesville, Chevy Chase, and Derwood.

Met with set designer and producer to finalize details for the Green Man cable television program.

Full advertising schedule for grasscycling and pollution prevention is currently running in the Gazette Newspapers countywide, including weekend editions.

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste Collection – HHW events were held on Sunday, April 14th at the Transfer Station and Sunday, April 21st at the Germantown Upcounty Services Center. The two events had 865 and 315 patrons, respectively.

With the new Mercury (Hg) thermometer swap program, 40 Hg thermometers were collected and 15 digital thermometers were given out at the HHW event on April 14th. 50 Hg thermometers were collected and 20 digital thermometers were given out at the event on April 21st.

Proposals for modifications to the HHW compound are due the first part of May.

Small Quantity Generator (Ecowise) Program – One Small Quantity Generator (SQG)/Ecowise event was held on April 10th, 6 businesses participated.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility (RRF): CEM Tracking of RRF Operations – The Continuous Emissions Monitoring System (CEMS) continued to track the percent load, certain engineering parameters and emissions of all three units. The system recorded emissions from all three units until April 2nd at approximately 3p.m., the system recorded a spike in CO emissions for unit #1 and no further emissions after that hour, indicating that the unit was brought off-line at that hour. Thereafter emissions were recorded for units #2 and #3 until April 15th. At approximately 8 p.m. on April 15th, the system started recording emissions for unit #1 indicating that this unit was brought on-line at that hour. Thereafter, the system recorded emissions for all three units till the end of the month.

On April 26th, starting at 8:45 a.m., the CEMS started indicating an unusual increase in Hydrogen Chloride (HCl) levels at the unit #2 economizer for a time-span of about 12 minutes, until 8:57 a.m. It is understood from Covanta that the operators, in their effort to control HCl emissions, switched to manual control of lime injection and maximized the injection rate. While the one-hour HCl was controlled to comply with the Air Permit limits, the 3-hr SO₂ level for the 6 a.m. to 8:59 a.m. block turned out to be 31 parts per million (31 ppmv) with a removal efficiency of 84%. The Title V Air Permit limits are 30 ppmv and at least 85% removal efficiency. Therefore, this incident appears to be the first air emissions permit exceedance since the startup of the RRF in May 1995.

Discussions among DSWS, Covanta and outside technical experts indicated that the cause of the extremely high inlet HCl levels were from an unknown constituent in the trash stream. DSWS has requested Covanta provide additional information on this incident to obtain independent opinion from the County's environmental contractor.

For the month of April, an inspector from MDE performed the monthly "Opacity test" for the RRF on April 17th. This is a requirement under Title V of the RRF Air Permit. The test showed zero percent (0%) opacity compared to the Air Permit limit of 10%.

RRF's annual emissions certification document was mailed to MDE to meet the April 1st deadline.

In the first week of April, the set of eight CEM CD-ROM's was updated to include CEMS data up to March 31, 2002. Copies of the CD-ROM's were placed in the Rockville and Poolesville libraries and distributed to FIG Air Quality Subcommittee.

Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology –

In April, the leachate evaporator operated only 18 days. The ground-flare was operating for 10 days without leachate evaporation, and the backup flare operated for 2 days. BENTECH is continuing its efforts to implement an electrical generating facility.

FIG-SWAC Air Quality Subcommittee – Extensive discussions took place between DPW&T and the Health Department following the March FIG meeting.

Simultaneously, DSWS worked with ENSR and ANASYS (Epidemiology Subcontractor) to obtain detailed information on patient statistics that were accounted for in the Epidemiology Study. Based on the review of this information and the inter-departmental discussions, a letter with relevant documentation was sent by the DPW&T Director to FIG chair, Mat McMillan. A copy of this transmittal was mailed to the Air Quality Subcommittee. The County's Health Officer, Dr. Carol Garvey is expected to attend the May 14th FIG meeting to address FIG's health issues including the just concluded Epidemiology Study.

ENSR is continuing its effort to complete the draft report on the Non-air Media Monitoring program conducted in fall 2001. This report is expected by the middle of May 2002.

Contracts – In April, the Office of Procurement was continuing review of the draft mini-contract for the Meteorological Services. The draft contract was submitted to Procurement in March. The current contract with RAS Enterprises will expire on June 3, 2002.

ENSR contract will expire in September 2002. A Request For Proposal (RFP) is currently under preparation.

RECYCLING

Public Outreach – A Recycling Task Force meeting was held on April 17, 2002. Canvassing on the mixed paper recycling program continues. Recruiting canvassers continues, especially in preparation for the better weather and longer days. The new recycling guide and poster are being finalized. Over 1,000 people attended the Division's Earth Day celebration on April 20th, gaining information on recycling, waste reduction, composting, reuse, cobbing, energy efficient vehicles, paper making, and many other topics.

Commercial Recycling and Waste Reduction – Staff continued to perform on-site evaluations of recycling programs for businesses. Four NOV's were issued to medium-sized businesses that did not submit their annual report by the March 1st due date. All NOV's have been resolved. Staff began conducting audits of the annual recycling reports, completing 39 of 327 reports received. Staff participated in twelve outreach events in April in support of Earth Day and interacted with approximately 4,000 people. Work has begun in preparation for Recycling Awareness Week (May 20-25, 2002).

Multi-Family Recycling – Staff continued to perform on-site evaluations of recycling programs, work with property managers and residents to provide assistance and support. A special seminar was held for a group of 30 owners of small properties. Staff provided materials and information to assist the owners in having a successful recycling program. Staff has audited annual recycling reports for 2001 and selected 10 properties with recycling rates over 50% to receive a special recognition award during Montgomery County's Recycling Awareness Week.

Mixed Paper Recycling – Canvassing continues in the Montgomery Village area. Canvassers are equipped with mixed paper recycling information and demonstration kits. A new door-hanger about mixed paper recycling was produced for use in the canvassing effort.

Volunteer Activities – During April, the volunteers assisted at two HHW collections, Arbor Day in Takoma Park, Earth Day and Silver Spring Friends Meeting House, and the Earth Day celebration. One volunteer attended Behind the Scenes as a continuing education effort.

PILOT PROGRAMS

Mixed Paper Pilot – The April totals for the Potomac Paper Cart program are:

4/2/02	15,220 lbs.	18.79 per household
4/10/02	15,380 lbs.	18.99 per household
4/17/02	16,920 lbs.	20.89 per household
4/24/02	15,600 lbs.	19.26 per household

The current average weight per house for the 30 weeks of the cart program is 20.25 lbs. as opposed to 13.99 lbs. per house prior to the program. This represents a 44.75% increase in the mixed paper capture rate since the start of the cart program.

Tubgrinding Pilot – Tubgrinding of screened reject material is ongoing.

FACILITY ACTIVITIES

Resource Recovery Facility – The facility ran with 3 boilers for the month of April with the following exceptions: unit #1 was taken out of service from April 2-15, 2002 for a scheduled maintenance outage.

On April 26th, hour ending 9:00 a.m., unit #2 experienced its first air permit violation. The measured emission, for the three-hour block, on SO₂ was 31 ppmv at 84% removal efficiency. The permit levels are 30ppmv or 85% removal. The violation was caused by a “spike” in HCl levels in the flue gas. The control set points for lime injection have been lowered to help control any future spikes. Its effect will be monitored closely. The violation will be discussed with SWAC on May 11, 2002 and with FIG on May 14, 2002.

Covanta declared chapter 11 bankruptcy on April 1, 2002. The plant continues to function and Covanta has developed agreements to ensure the delivery of required supplies and materials.

There were no operating curtailments or generation emergencies issued by Mirant for the month of April. There were no turbine/generator trips during the month

There were no water quality excursions during the month.

The following environmental activities occurred:

- Submitted the 1st Quarter 2002 Operations and Emissions report to MDE.
- Submitted the 1st Quarter 2002 NPDES report to MDE
- Submitted the March 2002 Potable Water Monthly Operating Report to MDE
- Performed monthly visible emissions (Method 9) observations required by the Title V permit on 4/17/02 (MDE), 4/18/02 (Montgomery County) and 4/24/02 (Covanta).
- Submitted the 1st Quarter 2002 Bacteriological Monitoring Report to MDE

Materials Recovery Facility – Approximately 1,795 tons of commingled material were shipped out after processing, and approximately 5,111 tons of mixed paper were loaded out and transferred to the Office Paper Systems processing facility.

Design is complete for the new processing equipment project. Arrangements have been made to issue bid invitations for some of the existing equipment to be sold. “Spring Cleaning” continued including the painting of fire hydrants, bollards, railing near the load-out areas and a forklift.

An Invitation for Bids to haul commingled material during the plant outage to an alternate processing facility is out. Bids are due to be received in early May.

Oaks Landfill – The landfill gas management system has been running well. The leachate evaporation system has had some maintenance problems but has been put back in service. A contract amendment was forwarded to Procurement that would enable SCS Field Services to replace corroding steel pipes at the blower building.

Weston, the operations contractor for the leachate pre-treatment plant, has been soliciting bids and negotiating with plumbing and electrical contractors to expand the capacity of the oil/grit cleanout receiving area.

DSWS prepared a draft Invitation for Bids for subdividing the leachate storage lagoons to facilitate long-term maintenance.

Working in conjunction with the Blue Mash Golf Course owner, we agreed to allow them to use 7 to 8 acres for reforestation that they are required to do. The trees (7,000 saplings) are being planted on the eastern side of the site.

Gude Landfill – Highway and Safety Services, Inc. began construction on April 30th to regrade and add drainage pipes to several poorly drained areas at the Gude Landfill.

Beantown Dump – The remaining businesses to receive a methane detector should have them by the end of May or early June. The IFB for installing a passive landfill gas venting system was issued April 26th, and the bids are due May 28, 2002.

Transfer Station – During April, Covanta shipped via rail 48,826 tons of processible waste from the Transfer Station to the Resource Recovery Facility, 7,428 more tons than shipped in April 2001.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

New radiation detection equipment at the scales was tested. Adjustments were made to the speed sensors on the two inbound scales. Radiation training was performed for personnel. The sensors will be put into operation the first Monday in May.

DSWS solicited a purchase order for fencing modifications near the SEARS property and other miscellaneous locations.

One of the three Transfer Station truck scales was overhauled. The other two scales are scheduled for similar work.

Site 2 Landfill Properties – DFS received 6 proposals for the renovation and leasing of the property. The Chiswell Subcommittee interviewed 4 of the applicants in February. The rest will be interviewed on May 23rd. It is anticipated that a lease will be signed by July 1, 2002.

Solid Waste Facilities Master Plan – – SCS Engineers will make a presentation on updating the Facilities Master Plan at the FIG meeting.

Berm construction between the Compost Facility and the Gothic Barn is complete; the plantings on the berm have been completed.

The Spring Traffic Count to determine the impact of the County facilities in Dickerson on the community will be done from May 13-17, 2002.

Yard Trim Compost Facility – The Yard Trim Facility received 2,656 tons of leaves and 3,025 tons of grass for composting.

Bagging Operation – In April, 97,550 bags of Leafgro were produced and 78,489 bags were shipped to distributors.

Linden Farm Renovations – Under the signed bagging agreement, the County is to renovate the Feed Barn and Bank Barn. Dean Fitzgerald, the contractor, started the renovation work in June. The first phase of work is complete.

Out-of-County Haul

Brunswick County, Virginia - During the month of April, about 14,384 tons of ash residue and 6,580 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. Landfill in Brunswick County, Virginia. About 386 tons of material was recycled at Clean Earth in

Hagerstown, MD, including about 16 tons of wood waste. Maintenance on the ash container fleet, including replacement of corroded side panels, continues at the Collier Rail Yard near Petersburg, Virginia. The contractor is evaluating initiating the rebuilding or replacement of the current container fleet within the next year using corrosion resistant coatings. DSWs has been working with the contractor to obtain additional equipment to address increasing waste volumes.

Ash Recycling – The County and the Northeast Maryland Waste Disposal Authority decided not to pursue this at this time.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	301-840-2370 (County Office) 301-590-1032 (Covanta)
Materials Recovery Facility	301-840-2701 (County Office) 301-417-1447 (MES)
Resource Recovery Facility	301-349-5685 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	www.mcrecycles.org

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

TOPIC OR FACILITY	
Latest Recycling Rate Reported in Montgomery County	37.2% (FY01)
Recycling Goal	45% by December 2002 50% by December 2004
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 TPD on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations limited to receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY01 tons received- 59,643
# Residences receiving trash collection by County contractors	84,788
# Residences receiving collection of recyclables in blue bins and yard waste collection	200,206
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

GLOSSARY OF ACRONYMS

AAR	American Ash Recycling, Inc.
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CDL	Commercial Driver's License
CEMS	Continuous Emissions Monitoring System
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Transportation Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DNR	Maryland Department of Natural Resources
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
LFG	Landfill Gas
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
Mg/l	milligrams per liter
M-NCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NEA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
OLAC	Oaks Landfill Advisory Commission
OMB	Office of Management and Budget
OPS	Office Paper Systems
PEPCO	Potomac Electric Power Company
PSA	Public Service Announcement
RFP	Request for Proposal
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SHA	State Highway Administration
SORRT	Smart Organizations Reduce and Recycle Tons
SDAT	State Department of Assessments and Taxation
SWAC	Solid Waste Advisory Committee
TXA170	Computer Interface Program
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
T.R.R.A.C.	Think Reduce and Recycle at Apartments and Condominiums
UT	Ultra-sonic Testing
WM	Waste Management
YTCF	Yard Trim Composting Facility